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RPA 10 Wo AZDRAOS14479 Heport Ho. R(84)2122

### 2 3 APR 1984

Darold G. Watson Opinersal Propulation Company, Inc Slack Canyon Stage 1, Box 1146 Phoenix: At 85029

Dear Mr. Vateou

On March 19 1986, a negatious waste investigation was concucted at your facility. During the course of this investigation, information was gathered in accordance with Section 2007 of the Resource Conservation and Recovery Act of 1976. A copy of our investigation report is enclosed for your information.

If you have questions related lirectly to technical asysts of this report, please contact Dahiel Shane at (415) 574-9361. Questions related to compliance with Drate hazardone wasts laws should be directed to the Arizona Droartment of Health Services, Euryan of Maste Control at (602) 258-1168.

Sindarely vours,

# Original Signed By:

Fathleen C. Shimmin Chief, Field Operations Branch

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co - Bill Milliams ANDORS (w/encl.)

bc: Blais (T-2-1)
Wilson (T-2-2)

T-3-2:Shane:Rich:TOX-57:4/18/84

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UNITED STATES GOVERNMENT

# 2- Way Memo

Subject:

RCRA INVESTIGATION

From:

Phil Bobel, Chief

Toxics and Waste Programs Branch

#### **INSTRUCTIONS**

Use routing symbols whenever possible.

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SIGNATURE OF ORIGINATOR					
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TITLE OF ORIGINATOR					

Field Investigator

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INITIAL MESSAGE

Enclosed is a RCRA inspection report for Universal Propulsion Company, Inc. Phoenix, Arizona. This facility was inspected as part of our State overview program.

 $_{p_i}$ The inspection disclosed the following deficiences: No waste analysis plan; Incoplete written inspection schedule; No inspection logs; Inadequate 1 contingency plan; No Closure plan/cost estimates; No weekly inspections of container storage area; Non-compliance with open burning distance requirements.

REPLY MESSAGE

To then Daniel M. Shane, Field Inspections Section T-3-2 Bob Mandel, Chief, Field Inspections Section T-3-2 Kathleen Shimmin, Chief, Field Operations Branch T-3

-	DATE OF REPLY	ROUTING SYMBOL
	SIGNATURE OF REPLIER	
	TITLE OF REPLIER	

## U.S. Environmental Protection Agency Region 9 Toxics and Waste Management Division

Field Operations Branch

Purpose: RCRA Overview Investigation

Facility: Universal Propulsion Company, Inc.

2540 N. Central Avenue Phoenix, AZ 85029

EPA ID Number: AZD980814479

Report Number: R(84)E122

Date of Inspection: March 19, 1984

EPA Inspector: Daniel Shane

Environmental Protection Specialist

Field Inspections Section

State Inspector: Cynthia L. Allison

Environmental Health Specialist

Arizona Department of Health Services

Facility Representatives: Harold G. Watson

President

(602) 869-8067

Larry C. Kempton

Executive Vice President Director, Manufacturing

William Hallas

Director, Facilities and Safety

Report Prepared By: Daniel M. Shane

#### BACKGROUND

Universal Propulsion Company, Inc. (UPCO) notified EPA as a generator and treatment/storage/disposal facility. The Part A permit application (Attachment 1) indicates storage and disposal of waste explosives by open burning. The solid waste is listed as a hazardous waste based on its characteristic of reactivity (D003) as defined in 40 CFR 261.23(8) - a class B explosive as defined in 49 CFR 173.88.

#### INVESTIGATION

## Description of hazardous waste processes

UPCO is engaged in the design, development and manufacture of emergency ballastic power systems and components used in aircraft, space and underwater systems. UPCO products include rocket catapults, rocket motors, initiators, gas generators, thrusters and other pyrotechnic ballastic devices. Supporting the product line, UPCO manufactures solid propellant. Waste solid propellant from the mixing, casting and loading operations are stored in remote bunkers prior to disposal by open burning. Attachment 2 includes an UPCO product catalogue.

A typical composition of the waste propellants includes ammonium perchlorate (oxidizer-fuel); iron oxide (catalyst); aluminum powder (fuel additive); polybutadiene (rubber binder). Other oxidizer-fuels are potassium perchlorate, ammonium nitrate, and lead nitrate. The facility currently generates 800 pounds per month waste solid propellant.

Spent solvents (toluene, xylene, methylene chloride) are also generated in small quantities. Spent solvents are placed in open 55-gallon drums and allowed to evaporate into the air. The facility generates less than one drum per month spent solvents.

#### Container Storage

Waste solid propellants are placed in sealed plastic bags and wood boxes and stored in DOD approved explosives storage bunkers. UPCO's Standard Operating Procedures (Attachment 3) describes the collection and storage of waste propellants.

#### Disposal (Open Burning)

UPCO's Standard Operating Procedures (Attachment 3) describes the practices used by the facility to dispose of waste propellants. The facility's County Burning Permit Application (Attachment 4) describes the combustion products expected from the burning of these waste materials.

The facility does not comply with the requirements for minimum distance from opening burning to the property of others. The open burning area is approximately 500 feet from State owned property. The area immediate adjacent to UPCO's property line is maintained as a power line corridor for the Salt River Project and access to this area is restricted.

A RCRA inspection checklist has been completed for this facility and is included in Attachment 5. The inspection checklist summarizes the deficiences found during the inspection. Attachment 6 includes a copy of UPCO's Contingency Plan.

# **ATTACHMENTS**

- 1. RCRA Part A application
- 2. UPCO's product catalogue
- 3. UPCO's Standard Operating Procedures
- 4. Maricopa County Burning Permit Application
- 5. RCRA inspection checklist
- 6. UPCO's contingency plan